

apparatus. Accordingly, because no viewing camera is defined in the instructions, the third-party apparatus generates the first image of the 3D computer model in accordance with the default viewing camera.

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Similarly, at step S9-6 in Figure 9, the image data is generated in accordance with the default viewing camera.

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Consequently, the user can determine the content of the image generated by the default camera each time the 3D computer model of the subject object is accessed by orientating the subject 210 on the photographic mat relative to the front marker 170.

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As an alternative to the processing described above, rather than defining the y coordinate of each calibration pattern in dependence upon the expected height of the subject object (that is, the y coordinate of the plane in which each calibration pattern lies is defined to be -1.0 of the processing above), the 3D computer model of the subject object may be generated relative to a calibration pattern lying in a plane having a predetermined y coordinate of, say, 0.0 (so that the centre of the calibration pattern is at a coordinate position of (0.0, 0.0, -20.0)), and the generated 3D

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computer model may then be re-positioned in the coordinate system to move it in the negative y-axis direction by a predetermined amount equal to half of the expected height of the subject object. Thus, for example, if the y coordinate of the calibration pattern plane is 0.0, then the 3D computer model would be re-positioned in the negative y-axis direction by 1.0 units. This achieves the same result of ensuring that the viewing axis of the default camera intersects the approximate centre of the 3D computer model.

Alternatively, the 3D computer model of the subject object may be generated relative to a calibration pattern lying in a plane having a predetermined y coordinate of, say, 0.0 but with an off-set in the y coordinate of each polygon vertex in the 3D computer model equal to minus one half of the expected height of the subject object (for example -1.0 units). In this way, the 3D computer model is not generated and then subsequently re-positioned, but is generated in the desired position relative to the default viewing camera straight away by incorporating the off-set into the y coordinate of each polygon of the model when it is generated.

Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Flow rate	1.0	L/min
Concentration	0.1	mol/L
pH	7.0	
Wavelength	254	nm
Scan rate	10	nm/min
Integration time	1.0	s
Resolution	0.5	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	10	nm/min
Integration time	1.0	s
Resolution	0.5	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
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